Abstract

Driver for Pockels cells and using this Pockels cell within laser systems

The driver i.e. the electrical control of the Pockels cell is modified from the standardly known H-configuration using the switches S1, S2A; S1A, S2A by adding at least one more switch (S2B; S1B, S2B). This switch can either replace the usually used recharging resistors (R2) or can be placed to these in parallel. It is also possible to use an arrangement using 4 switches (S1A, S2A, S1B, S2B) and no recharging resistors at all. Using such a driver with a Pockels cell pulses can be selected in laser systems more efficiently. Pulse sequences with well defined widths and spacing can be produced for certain applications.

(Fig.4 is used for this abstract)

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